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Patent
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LISTING OF THE CLAIMS:

1. (Previously Presented) A method for determining the operational status of an integrated services hub at a customer premises, comprising:
 - (a) monitoring the status of AC power to the integrated services hub; and
 - (b) upon detecting a failure of AC power, signaling to a user of the integrated services hub that AC power has failed.
2. (Original) The method of claim 1 wherein the step of monitoring the status of AC power to the integrated services hub further comprises monitoring a bit on a power supply status register.
3. (Original) The method of claim 1 wherein the step of signaling to a user of the integrated services hub that AC power has failed further comprises playing an audible warning tone in a telephone receiver connected to the integrated services hub.
4. (Original) The method of claim 3 wherein the step of playing an audible warning tone in a telephone receiver connected to the integrated services hub further comprises instructing a digital signal processor residing in the integrated services hub to generate the audible warning tone in response to an off-hook condition.
5. (Previously Presented) A method for determining the operational status of an integrated services hub at a customer premises, comprising:
 - (a) monitoring the status of a wide area network connection to the integrated services hub; and
 - (b) upon detecting a failure of the wide area network connection, signaling to a user of the integrated service hub that the wide area network connection has failed.
6. (Original) The method of claim 5 wherein the step of monitoring the status of a wide area network connection to the integrated services hub further comprises checking the status of a network status register on a line interface chip residing in the integrated service hub and connected to the wide area network.

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7. (Original) The method of claim 6 wherein the line interface chip further comprises a chip set.
8. (Original) The method of claim 5 wherein the step of signaling to a user of the integrated services hub that the wide area network connection has failed further comprises playing an audible warning tone in a telephone receiver connected to the integrated services hub.
9. (Original) The method of claim 8 wherein the step of playing an audible warning tone in a telephone receiver connected to the integrated services hub further comprises instructing a digital signal processor residing in the integrated services hub to generate the audible warning tone in response to an off-hook condition.
10. (Previously Presented) An apparatus for determining the operational status of a customer premises integrated services hub supporting a plurality of telephone lines, comprising:
- (a) a plurality of subscriber line interface circuits (SLIC), the number of SLICs equaling the number of telephone lines, with a separate SLIC corresponding with and connected to each of the telephone lines,
 - (b) at least one subscriber line access circuit (SLAC) connected to the SLICs to detect an off-hook condition in the telephone lines;
 - (c) a power monitor for monitoring the status of AC power to the integrated services hub; and
 - (d) a telephony controller, the telephony controller receiving notification from the power monitor regarding the status of AC power to the integrated services hub, the telephony controller receiving notification from the SLAC of an off-hook condition in the telephone lines, and the telephony controller activating a warning signal on at least one telephone line that AC power has failed in response to the notifications from the power monitor and the SLAC.

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11. (Original) The apparatus of claim 10 wherein the warning signal is an audible warning tone played in a telephone receiver connected to the integrated services hub.
12. (Original) The apparatus of claim 11 wherein the audible warning tone is generated by a digital signal processor residing in the integrated services hub.
13. (Original) The apparatus of claim 10 wherein the telephony controller and the power monitor are software components that run on a central processing unit.
14. (Previously Presented) An apparatus for determining the operational status of a customer premises integrated services hub supporting a plurality of telephone lines, comprising:
- (a) a plurality of subscriber line interface circuits (SLIC), the number of SLICs equaling the number of telephone lines, with a separate SLIC corresponding with and connected to each of the telephone lines;
 - (b) at least one subscriber line access circuit (SLAC) connected to the SLICs to detect an off-hook condition in the telephone lines;
 - (c) a network connection monitor for monitoring the status of a wide area network connection to the integrated services hub; and
 - (d) a telephony controller, the telephony controller receiving notification from the network connection monitor regarding the status of the wide area network connection to the integrated services hub, the telephony controller receiving notification from the SLAC of an off-hook condition in the telephone lines, and the telephony controller activating a warning signal on at least one telephone line that the wide area network connection has failed in response to the notifications from the network connection monitor and the SLAC.
15. (Original) The apparatus of claim 14 wherein the warning signal is an audible warning tone played in a telephone receiver connected to the integrated services hub.
16. (Original) The apparatus of claim 15 wherein the audible warning tone is generated by a digital signal processor residing in the integrated services hub.

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17. (Original) The apparatus of claim 14 wherein the telephony controller and the network connection monitor are software components that run on a central processing unit.

18. (Previously Presented) In a customer premises integrated services hub of the type having a wide area network connection for coupling voice signals, a power supply receiving power from an AC power circuit in the customer premises, a backup power supply for powering the integrated services hub when the AC power fails, and at least one telephone line for coupling to a telephone receiver in the customer premises, apparatus for notifying a user of a telephone receiver that AC power has failed, comprising:

(a) at least one subscriber line interface circuit (SLIC), the number of SLICs equaling the number of telephone lines, with a separate SLIC corresponding with and connected to each of the telephone lines,

(b) at least one subscriber line access circuit (SLAC) connected to the SLICs to detect an off-hook condition in the telephone lines;

(c) a power monitor for monitoring the status of AC power to the integrated services hub; and

(d) a telephony controller, the telephony controller receiving notification from the power monitor regarding the status of AC power to the integrated services hub, the telephony controller receiving notification from the SLAC of an off-hook condition in the at least one telephone line, and the telephony controller activating a warning signal on the at least one telephone line that AC power has failed in response to the notifications from the power monitor and the SLAC.

19. (Previously Presented) The apparatus of claim 18 wherein the warning signal is an audible warning tone played in a telephone receiver connected to the integrated services hub.

20. (Previously Presented) The apparatus of claim 19 wherein the audible warning tone is generated by a digital signal processor residing in the integrated services hub.

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21. (Previously Presented) The apparatus of claim 18 wherein the telephony controller and the power monitor are software components that run on a central processing unit.

22. (Previously Presented) In a customer premises integrated services hub of the type having a wide area network connection for coupling voice signals, a power supply receiving power from an AC power circuit in the customer premises, a backup power supply for powering the integrated services hub when the AC power fails, and at least one telephone line for coupling to a telephone receiver in the customer premises, apparatus for notifying a user of a telephone receiver that ~~AC power~~ the wide area network connection has failed, comprising:

(a) at least one subscriber line interface circuit (SLIC), the number of SLICs equaling the number of telephone lines, with a separate SLIC corresponding with and connected to each of the telephone lines;

(b) at least one subscriber line access circuit (SLAC) connected to the SLICs to detect an off-hook condition in the telephone lines;

(c) a network connection monitor for monitoring the status of a wide area network connection to the integrated services hub; and

(d) a telephony controller, the telephony controller receiving notification from the network connection monitor regarding the status of the wide area network connection to the integrated services hub, the telephony controller receiving notification from the SLAC of an off-hook condition in the at least one telephone line, and the telephony controller activating a warning signal on the at least one telephone line that the wide area network connection has failed in response to the notifications from the network connection monitor and the SLAC.

23. (Previously Presented) The apparatus of claim 22 wherein the warning signal is an audible warning tone played in a telephone receiver connected to the integrated services hub.

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24. (Previously Presented) The apparatus of claim 23 wherein the audible warning tone is generated by a digital signal processor residing in the integrated services hub.

25. (Previously Presented) The apparatus of claim 22 wherein the telephony controller and the network connection monitor are software components that run on a central processing unit.